BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

(14)

Estimate Cost Rs. 1700000.00

Name of Work: Estimate for Construction of Gazibo at Suverna Mahothsava Ground (NTI Ground) at Vidyaranyapura Main Road in Ward No. 09, Vidyaranyapura Sub Division.

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1: Earth work in surface excavation in **ordinary soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, **No. 5 / Item No. 2.1 / PWD SR 2015-16**	Cum							
	Centre Line		2	10.00	15.00	0.20	60.00		
							60.00	156.88	**9413.00**
	Basic Rate	148.00							
	Area Weightage @ 6%	8.88							
	Total	**156.88**							
2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in Ordinry soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3 / PWD SR 2015-16**	Cum							
	Centre Line		2	24.00	1.00	1.00	48.00		
							48.00	188.68	**9057.00**
	Basic Rate	178.00							
	Area Weightage @ 6%	10.68							
	Total	**188.68**							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**	Cum							
	All round for Foundation		2	24.00	0.90	0.15	6.48		
	For Flooring		8x0.5	3.00	3.25	0.15	5.85		
	All round Flagging Course		2	28.00	0.90	0.15	7.56		
							19.89	4976.70	**98987.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Total	**4976.70**							
4	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	Wall Portion		2	24.00	0.75	0.50	18.00		
							18.00	4058.74	**73057.00**
	Basic Rate	3829.00							
	Area Weightage @ 6%	229.74							
	Total	**4058.74**							
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	Wall Portion		2	24.00	0.45	0.45	9.72		
			2	2.00	0.60	0.20	0.48		
			2	2.00	0.30	0.20	0.24		
							10.44	4814.52	**50264.00**
	Basic Rate	4542.00							
	Area Weightage @ 6%	272.52							
	Total	**4814.52**							
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 **Page No. 6 / Item No. 2.10 PWD SR 2015-16**	Cum							
			Qty Vide Item No. 2				**48.00**	127.20	**6106.00**
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	**127.20**							
7	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 109 / Item No. 15.3 / PWD SR 2015-16**	Sqm							
			2	26.00		0.60	31.20		
							31.20	97.52	**3043.00**
	Basic Rate	92.00							
	Area Weightage @ 6%	5.52							
	Total	**97.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Alround Gazido		2	28.00	0.90	0.10	5.04		
			16	0.60	0.60	0.90	5.18		
							10.22	6083.34	**62196.00**
	Basic Rate	5739.00							
	Area Weightage @ 6%	344.34							
	Total	**6083.34**							
9	KSRB 4.9.2: Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars Fe 500 **Page No. 17 / Item No. 4.46.2 PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 100 Kg / Cum		0.10	10.22			1.02		
							1.02	61722.99	**63106.00**
	Revised Basic Rate	58229.24							
	Area Weightage @ 6%	3493.75							
	Total	**61722.99**							
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Columns Footing		4	2.40		0.90	8.64		
							8.64	301.04	**2601.00**
	Basic Rate	284.00							
	Area Weightage @ 6%	17.04							
	Total	**301.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing andfixing of pre pigmneted extruded orange cement roof tiles of zixe 4[illegible] mmx 330 mm with necessary pecials such as ridges barges and nils etc. including cast of providing PVC (6.00 kgs/sqcm) gutter of min 6" radius and down water pipes of 4" dia as per the roof design on EXISTING MS/WOODEN ROOF OR TRUSS INCLUDING cost of materials, scaffoldings, labour etc complete as per specification **Page No. 49 / Item No. 8.29 / PWD SR 2015-16**	Sqm							
			4x8x0.5	3.30	4.80		253.44		
							253.44	755.78	**191545.00**
	Basic Rate	713.00							
	Area Weightage @ 6%	42.78							
	Total	**755.78**							
12	Fabricating Supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall cofirm to latest structural welding code. Quality shall be on various parametes like shape, size, design gauge and polish the entire trusses is anchored in RCC column by using 4 nos of M.S anchor bolts at each support with 10 mm thick base plate and shoe plate The work includes cutting, straightening, placing in position of M.S pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift transportation etc., complete as per specification **Page No. 40 / Item No. 7.29 / PWD SR 2015-16**	Kgs	Kg			Wt Kg/m			
	Pipe 150 mm dia		16	3.60	57.60	21.90	1261.44		
	MS Rectangular Hollow Pipes for rafters								
	22mm x 61 mmof 4.5 mm thick		32	4.50	144.00	11.88	1710.72		
	MS Rectangular Hollow Pipes for Purlins								
	80mm x 40 mm of 2.90 mm thick		2x8x10	2.20	352.00	5.50	1936.00		
							4908.16		
	Add 5 % for Guessete Plate						245.41		
							5153.57	127.20	**655534.00**
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	**127.20**							
13	**Providing precast concrete chairs**	Nos							
			15				15	10000.00	**150000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Providing and laying flooring using pre polishing water cut/gang saw 19 mm thick (Granite slab over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement / colour pigment etc., complete. **using grey granite / Multy Red / Ruby Red / Black / Hassan Green Granite of Width not less than 1200 mm Page No. 107 / Item No. 14.47.1 / PWD SR 2015-16**	Sqm							(1)
	Hall		8x2x0.5	3.00	2.60		62.40		
	For Steps		4	2.50	0.60		6.00		
							68.40	2697.70	**184523.00**
	Basic Rate	2545.00							
	Area Weightage @ 6%	152.70							
	Total	**2697.70**							
15	Sub Total	L/S							**1559432.00**
16	KRIDL Charges @ 8%								**124755.00**
17	Third party Inspection Charges @ 1%								**15594.00**
18	Miscellaneous and Unforeseen Charges	L/S							**219.00**
								Total	**1700000.00**

Rupees Seventeen Lakh(s) Only

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-16,
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
KRIDL

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
KRIDL

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 16/6/16.
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For ..... 17.00 lakh Rs.
Head of A/C..... P-2415
CER NO :..... 6 Dt:.16.6.16

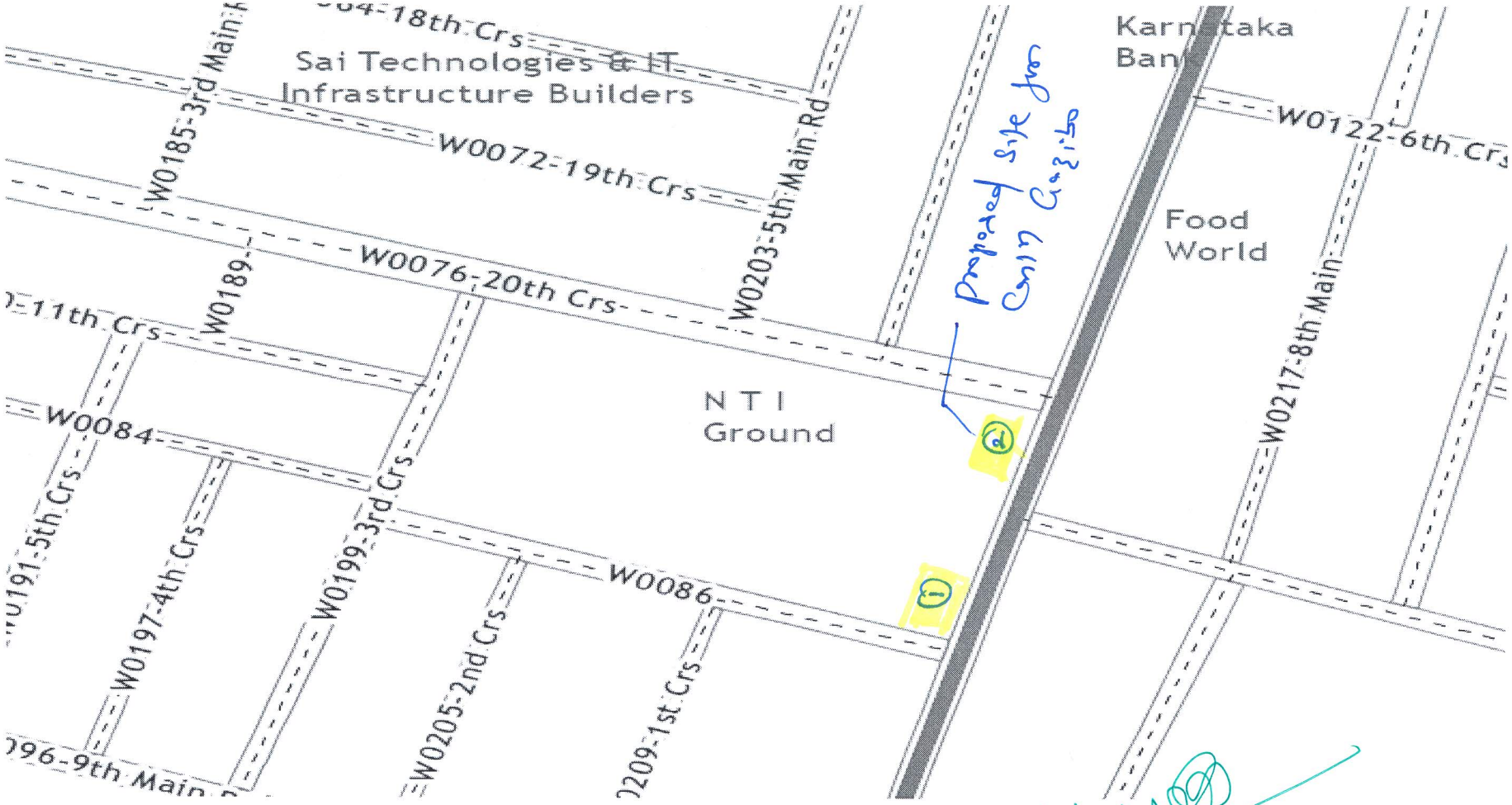
TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs..... 17-00 Lakhs.....
Head of A/c..... P-2415.....
Div. Ref. No. EE/BTP/TS/09/16-17 dtd 25.06.16

AE 25/06

EE(BTP) 25/6/16.

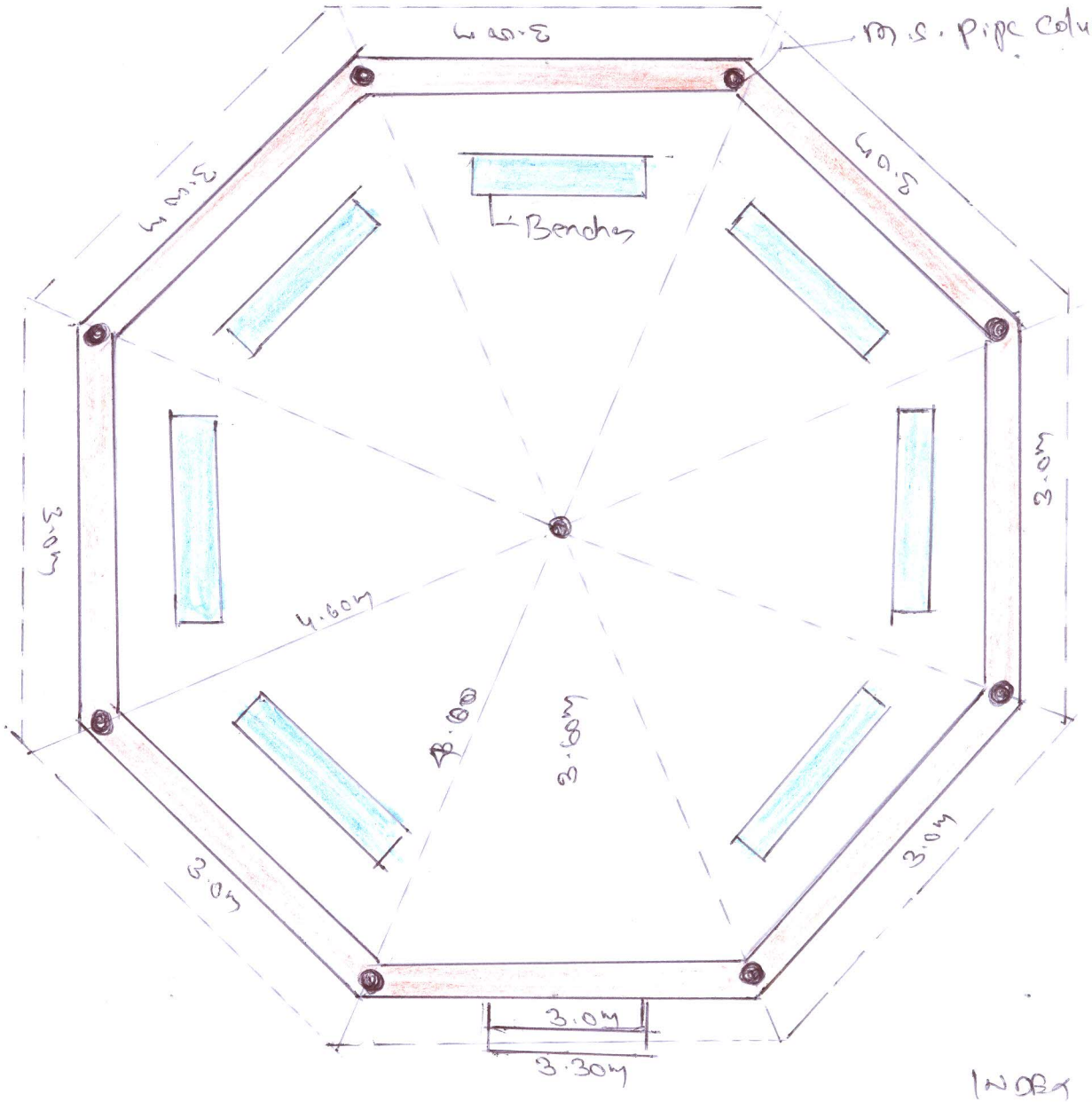
Name of work : Construction of Gazibo at Suvarna Mahotsava Ground (NTI Gound) at Vidyaranyapura Main Road in ward No 09 of Vidyaranyapura sub Division



Assistant Engineer
Ward No 09

Assistant Executive Engineer
Vidyaranyapura Sub Division, BBMP

Name of work: Construction of Gazibo at Survey No. Mahotsava Ground (NTI Ground) near Vidyaranyapura Main Road in Ward, Sub-Division

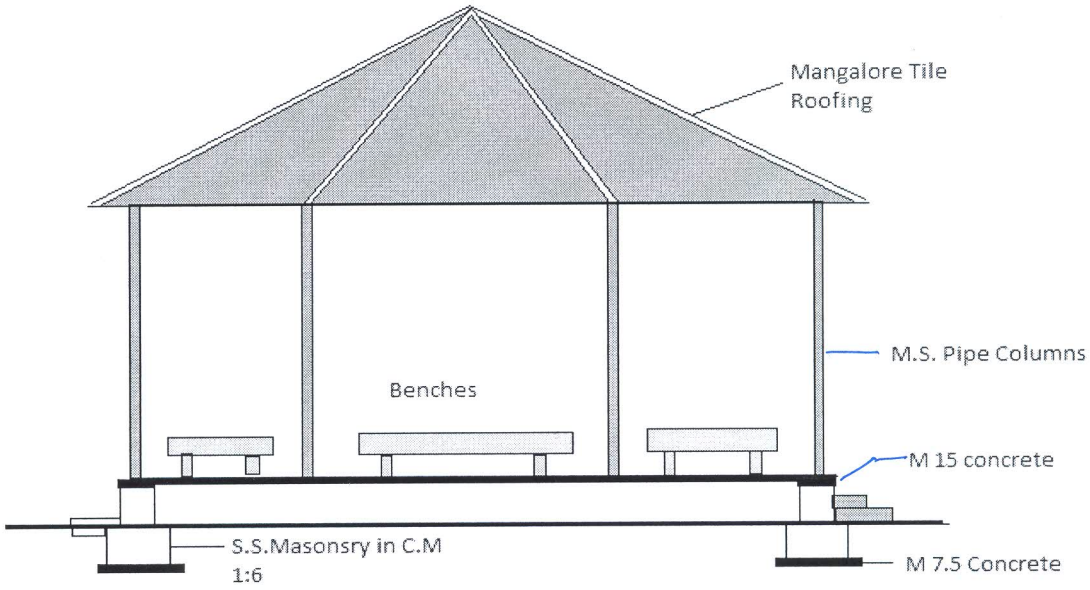


PLAN OF GAZIBO

NOT TO SCALE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಚೇನಹಳ್ಳಿ ಬೆಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಸಾ., ಬೆಂಗಳೂರು-97.

Name of work : Construction of Gazibo at Suvarna Mahotsava Ground (NTI Gound) at Vidyaranyapura Main Road in ward No 09 of Vidyaranyapura sub Division



cross section of Gazibo

Assistant Enginee
Ward No 09

Assistant Executive Engineer
Vidyaranyapura Sub Division, BBMP

RECTANGLAR HOLLOW SECTIONS (RHS)

SEC[illegible]N SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg/m)	Mts./Tonne
30X20	30.00	20.00	2.00	1.47	680
40X20	40.00	20.00	2.00	1.78	562
50X25	50.00 50.00	25.00 25.00	2.90 3.20	2.98 3.24	336 309
60X40	60.00	40.00	2.90	4.12	243
66X33	66.00 66.00 66.00	33.00 33.00 33.00	2.90 3.60 4.50	4.07 4.93 5.95	246 203 168
70X30	70.00 70.00 70.00	30.00 30.00 30.00	2.90 3.20 4.00	4.12 4.50 5.45	243 222 183
80X40	80.00 80.00 80.00	40.00 40.00 40.00	2.90 3.20 4.00	5.03 5.50 6.71	199 182 149
96X48	96.00 96.00 96.00	48.00 48.00 48.00	3.20 4.00 4.80	6.71 8.22 9.66	149 122 104
122X61	122.00 122.00 122.00	61.00 61.00 61.00	3.60 4.50 5.40	9.67 11.88 14.01	103 84 71
145X82	145.00 145.00	82.00 82.00	4.80 5.40	15.92 17.74	63 56
172X92	172.00 172.00	92.00 92.00	4.80 5.40	18.71 20.88	53 48

Tube Trading Co.

5

MILD STEEL PIPES CONFIRM TO IS : 1239 (PART I) - 1979

Nominal Bore		Outside Diameter		Light (A-Class) Thickness Weight		Medium (B-Class) Thickness Weight		Heavy (C-Class) Thickness Weight	
Inch	mm	Inch	mm	mm	kg/mtr	mm	kg/mtr	mm	kg/mtr
1/8"	3 mm	0.406	10.32	1.80	0.361	2.00	0.407	2.65	0.493
1/4"	6 mm	0.532	13.49	1.80	0.517	2.35	0.650	2.90	0.769
3/8"	10 mm	0.872	17.10	1.80	0.674	2.35	0.852	2.90	1.02
1/2"	15 mm	0.844	21.43	2.00	0.952	2.65	1.122	3.25	1.45
3/4"	20 mm	1.094	27.20	2.35	1.410	2.65	1.580	3.25	1.90
1"	25 mm	1.312	33.80	2.65	2.010	3.25	2.440	4.05	2.97
1.1/4"	32 mm	1.656	42.90	2.65	2.580	3.25	3.140	4.05	3.84
1.1/2"	40 mm	1.906	48.40	2.90	3.250	3.25	3.610	4.05	4.43
2"	50 mm	2.375	60.30	2.90	4.110	3.65	5.100	4.47	6.17
2.1/2"	65 mm	3.004	76.20	3.25	5.840	3.65	6.610	4.47	7.90
3"	80 mm	3.500	88.90	3.25	6.810	4.05	8.470	4.85	10.1
4"	100 mm	4.500	114.30	3.65	9.890	4.50	12.10	5.40	14.4
5"	125 mm	5.500	139.70	-	-	4.85	16.20	5.40	17.8
6"	150 mm	6.500	165.10	-	-	4.85	19.20	5.40	21.2